

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Yl. National Park.

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MONTHLY REPORT

FOR

JUNE, 1923.

143 - JUNE - 1923.



142  
July 7, 1923

Dear Sir:

The following is my report on conditions in Yellowstone National Park and on the operation of the park, for the month of June, 1923:

I. GENERAL CONDITIONS

The month of June, 1923, was probably as important a month as any month in the history of the park. Events crowded fast upon each other - all events of unusual importance - the last being the visit of the President of the United States and his party, which occurred on June 30th.

The park was formally opened for the Fifty-first summer season June 20th. Formal ceremonies of opening took place at the entrance arch at Gardiner, the northern gateway. The speaker of the day was Dr. John Wesley Hill, Chancellor of the Lincoln Memorial University of Cumberland Gap, Tennessee. Dr. Hill came to the park as the personal representative of the President and the Secretary of the Interior. He delivered an eloquent address on some of the important questions of the day but dwelt particularly on the necessity for completely conserving the National Parks. In my opinion in all history no finer or more powerful expression on behalf of complete preservation of the parks has been uttered. I inclose for filing with this report a copy of the Livingston Enterprise, Yellowstone Park Tourist Edition, of June 21st, giving the full text of Dr. Hill's address.

A few days after the opening the Congressional party, returning from Alaska, visited the park, coming in Gardiner shortly after noon of June 22nd and leaving via Cody on June 24th. Director Mather arrived in the park on June



29th, and on the 30th the President of the United States and his party of approximately seventy-five individuals, including the Secretaries of Interior and of Agriculture, arrived.

Aside from the visit of these distinguished parties the month of June was conspicuous in park history in that all previous records for early travel were broken. There was a total gain of 2,555 visitors in June, 1923, over the same month last year, which, as you know, was also a record month up to that time.

#### Roads

The month was generally cool and stormy. There was an unusual amount of rain and it looked for a time as if the roads might not stand up under the almost continual downpour. Despite the handicap of bad weather all of the park roads were opened on schedule. At the time the last report was submitted all of the roads in the park were open except the Continental Divide Road between Old Faithful and West Thumb, 19 miles; the road between Thumb and Lake, 16 miles; the Dunraven Pass road between Canyon and Tower Falls Junction, 20 miles; the Sylvan Pass Road between Lake Junction and the East boundary, 27 miles; the South road between West Thumb and the South boundary, 23 miles; and the West Gallatin Road. The West Gallatin Road was opened about June 10th and about the same time the road between West Thumb and Lake was opened. On June 14th the first cars were permitted to go through Sylvan Pass on the Cody road. On the 12th the first cars passed over the Continental Divide between Old Faithful and West Thumb. On the 14th Sylvan Pass was opened to travel, and on the 21st Dunraven Pass was opened. On the 24th the road between West Thumb and the Snake River, or South entrance, was opened.

The road up the south slope of Mt. Washburn to the summit was made accessible to automobiles on the 21st but no cars were permitted on this road until the 25th. On that day I inspected the road and found it unsafe for travel. I closed it and it will not again be open until July 7th.

#### Weather

The Monthly Meteorological Summary furnished by the United States Weather Bureau for June is inclosed herewith. The following weather records are also quoted from



the same source, furnished by the local Observer:

The month was consistently cool with almost unprecedented frequency of showers and thunderstorms.

Temperature: Monthly mean,  $52.0^{\circ}$ , is  $4.0^{\circ}$  below normal. Temperatures were generally below the seasonal average throughout the month. Highest  $80^{\circ}$  on the 12th; lowest  $29^{\circ}$  on the 14th.

Precipitation: Total, 2.10 inches, is 0.46 inch above normal. There were 20 days with rain, it being with one exception the greatest of record for June during the past 37 years.

Snowfall: Total 0.1 inch, which occurred on the 1st.

Wind: Average hourly velocity 7.3 miles, which is about normal. Maximum velocity 36 miles from the south on the 24th.

Sunshine: Percentage of possible 59; normal 64.

#### Trains and Opening of Season

On the 15th of June a Northern Pacific special train, bearing help for the hotels, camps and transportation companies, reached Gardiner.

Beginning June 20th regular train schedules went into effect at all gateways, at Gardiner Northern Pacific trains arriving daily at 11:10 A.M. and 5:30 P.M., and departing at 11:45 A.M. and 7:15 P.M. At West Yellowstone the Yellowstone Special arrives at 7:00 A.M. and departs at 7:00 P.M., and another train arrives at 2:00 P.M. and departs at 2:15 P.M. At Cody the Burlington trains arrive at 6:15 P.M., 12:15 P.M., and 6:15 P.M., and depart at 8:20 A.M., 1:30 P.M., and 8:15 P.M.

#### Travel

There were few records broken during June, 1923. The exceedingly heavy rail travel for June, 1922, set records for entrance and single days travel that will probably



stand for some time to come.

There was a loss of 306 in rail travel for the month due to the large Shrine parties early in the season of 1922. On June 23rd there was a loss of 1210 in rail travel over the previous year but this has been cut down over 900 during the past few days.

Private auto travel has been far in excess of any previous year. During the past year our pre-season travel showed a loss of 278. Add this to the 306 loss in rail and we had a total handicap of 584 visitors to overcome before we could exceed last year's record. In spite of this our totals are 2,833 for the month and 2,555 for the season in excess of last year. This is all due to private auto travel which shows an increase of 954 cars and 3,139 people over June 1922.

Approach roads to the park were almost impassable at times due to the almost constant heavy rains throughout the entire Northwest. Visitors reaching the park entrances met with the most discouraging circumstances and the fact that our June records were broken clearly shows the ever-increasing popularity of the Yellowstone.

Incorporated in this report are two travel statements - one, the Chief Ranger's Travel Report for June, 1923, and the other, June 1923 Comparative Figures with 1922 and 1921.



## II. PERSONNEL

On June 1st there were 65 appointees on the payrolls and on June 30th there were 110. The following list shows the number of appointees of various classes serving during the month, with a general statement of the kind of work in which they were engaged:

No.	<u>Class</u>	<u>Kind of work performed</u>
1	Superintendent	General administration and supervision of all activities in the park.
1	Asst. Superintendent	Administration, purchasing, disbursing.
2	Asst. Engineers	1 in charge of engineering work in park, 1 assisting.
7	Clerks	1 Financial clerk; 1 Cost Accounting Clerk; 1 Personnel, File and Report Clerk; 1 Clerk on orders, proposals and vouchers; 1 Time and Payroll Clerk; 2 stenographer-typists on stenographic work for superintendent.
3	Electricians	Operated power plant regular shift, including Sundays, read meters, did necessary line work.
4	Foremen	1 in charge of headquarters corral and work on lawns; two on roads and construction work; one on wagons and sprinkling system; one resigned June 30, 1923.
1	Telegrapher	Sent and received all Government Western Union messages, operated one shift on telephone switchboard.
2	Telephone Switchboard Operators	Operated telephone switchboard daily shifts, including Sunday. (One under temporary appointment.



<u>No.</u>	<u>Class</u>	<u>Kind of work performed</u>
1	Master Mechanic	In charge of shops and of repair to heavy road machinery.
1	Blacksmith	General blacksmith work, including shoeing of horses in shop, overhauling and repairing tools and equipment.
1	Master Painter	General shop work including painting equipment and buildings.
7	Laborers	Teaming, freighting, assisting mechanics and miscellaneous work at headquarters. (One resigned effective June 12, 1923)
1	Steward & Master of Transportation	In charge of all transportation and of storehouses.
1	Chief Buffalo Keeper	In charge of tame buffalo herd.
2	Asst. Buffalo Keepers	In charge of hay ranch operations at Slough Creek; 1 assisting Buffalo Keeper.
1	Master Plumber	In charge of general plumbing and water and sewer systems.
1	Auto Mechanic	On duty at power plant.
1	Machinist	Repairing equipment.
1	Carpenter	Repairing buildings at headquarters.
1	Chief Park Ranger	In charge of Ranger Force.
1	First Asst. Chief Park Ranger	In charge of Northern District.
2	Assts. Chief Park Ranger	1 on duty at Lake District; 1 in charge Chief Ranger's office.
10	Park Rangers	Patrolling, handling tourist traffic, protecting game, policing up stations, repairing trails and bridges, fire



<u>No.</u>	<u>Class</u>	<u>Kind of work performed</u>
		lookout work, and miscellaneous duties.
46	Temporary Park Rangers	Patrolling, handling tourist traffic, building trails, fire lookout, lecture, guide, information, on duty in Chief Ranger's office, miscellaneous duties.
11	W A E Park Rangers	In charge of stations, patrolling, motorcycle, miscellaneous duties.

#### Leaves of Absence

Andrew R. Edwin, Clerk, noon June 14 to noon June 15, 1 day.  
W. J. O'Loughlin, Laborer, June 1 to 18, 15 days.  
Peter Bilkert, Clerk, June 2 noon, 1/2 day.  
Lucy Bilkert, Clerk, June 6 noon, 1/2 day.  
W. L. Bicket, Carpenter, June 9, 1 day.  
J. D. Fraser, Machinist, June 9-11, 2 days.  
Peter Bilkert, Financial Clerk, June 8 noon, 1/2 day.  
Lucy Bilkert, Clerk, June 8, noon, 1/2 day.  
Clarence Scoyen, Laborer, June 13, 1 day.  
Lucy Bilkert, Clerk, June 16, 1 day.  
Peter Bilkert, Financial Clerk, June 16, 1 day.  
J. D. Fraser, Machinist, June 21 noon, 1/2 day.  
Lucy Bilkert, Clerk, June 22, 1 day.  
Wm. H. Ferrell, Foreman, June 30, 1 day.  
Floyd R. Marriott, Laborer, June 1 to 5, incl., 4 days.

#### Sick Leave

Anna E. Madsen, Clerk, 2 days, June 20 and 21.

#### Leave Without Pay

Clinton F. Ferris, Park Ranger, temporary, 3 months, beginning June 14, 1923, to September 13, 1923, inclusive.

#### Resignations

James H. McDevitt, Laborer, \$1200 per annum, and quarters, plus increase of compensation, resigned effective June 12, 1923.



William H. Ferrell, Foreman, at \$1550 per annum, and quarters, plus increase of compensation, resigned effective close of June 30, 1923.

#### Appointments

Oscar B. Eggen, Clerk (Timekeeper and Payrolls), at \$1200 per annum, temporary, and quarters, plus increase of compensation, effective June 14, 1923.

Mrs. Jessie L. Cummings, temporary, Telephone Operator, at \$75 per month and quarters, plus increase of compensation, effective June 15, 1923.

James McBride, Park Ranger at \$1500 per annum, by change of designation from Fish and Game Warden at \$1500 per annum, effective June 1, 1923.

Arthur Mortensen, Assistant Buffalo Keeper, at \$1200 per annum, and quarters, plus increase of compensation, effective June 16, 1923.

William L. Algorn, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Milton S. Angier, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16 (noon), 1923. Temporary.

Nathan Bartlett, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 5, 1923. Temporary.

Joseph W. Byrns, Jr., Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Edward B. Cogswell, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Gordon Cottier, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

W. J. Cribbs, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 10, 1923.



- Napoleon T. Carrier, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923.
- John W. Delmar, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective July 16, 1923. Temporary.
- Carroll P. Donohoe, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- Michael Z. Ferguson, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- Charles B. Grove, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- John R. Huffman, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- Robert J. Hummer, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- Wendell S. Keate, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- William W. King, Jr., Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- William M. Kocher, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- James D. Landsdowne, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 20, 1923. Temporary.
- Olin B. Lane, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.
- Vernon S. Lilly, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.



Miss Marguerite Lindsay, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 20, 1923. Temporary.

Theodore W. Loder, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

John B. Lowry, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Harry Marioneaux, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Kenneth B. McIver, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Douglas McMurray, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Paul R. Needham, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Norman A. Nerison, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

David J. Prior, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Eugene V. Robertson, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 21 (noon), 1923. Temporary.

Edward H. Rynearson, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Merel S. Sager, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Burleigh D. Shelton, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16,



1923. Temporary.

Elmer E. Silburn, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 20 (noon), 1923. Temporary.

Edward D. Sledge, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Russell Sprinkel, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective 21 (noon) 1923. Temporary.

Malcolm T. Swann, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16 (noon) 1923. Temporary.

Frank Thone, Park Ranger (Naturalist), \$120 per month and quarters, plus increase of compensation, effective June 10, 1923. Temporary.

George M. Vandaveer, Jr., Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Kenneth C. Wahl, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16 (noon) 1923. Temporary.

Edwin S. Young, Park Ranger, \$80 per month and quarters, plus increase of compensation, effective June 16, 1923. Temporary.

Theodore P. Chittenden, Park Ranger, \$100 per month and quarters, plus increase of compensation, effective June 25, 1923. Temporary.

The following were taken up for duty:

John Delmar, Park Ranger, \$1200 per annum, W.A.E., plus quarters, and increase of compensation, effective June 16, 1923.

Ernest S. Matthew, Park Ranger, \$1200 per annum, W.A.E., plus quarters, and increase of compensation, effective June 16, 1923.



Hollis W. Matthew, Park Ranger, \$1200 per annum, when actually employed, plus quarters, and increase of compensation, effective June 16, 1923.

The following Temporary Park Ranger appointments were made and cancelled:

Carl F. Beall, Park Ranger, \$80 per month and quarters, plus increase of compensation.

Malcolm R. Black, Park Ranger, \$100 per month and quarters, plus increase of compensation.

Towne D. Hayes, Park Ranger, \$80 per month and quarters, plus increase of compensation.

Fred G. Jopp, Park Ranger, \$100 per month and quarters, plus increase of compensation.

Melvin L. Larson, Park Ranger, \$100 per month and quarters, plus increase of compensation.

Leon D. Mink, Park Ranger, \$100 per month and quarters, plus increase of compensation.

Ralph W. Pierson, Park Ranger, \$80 per month and quarters, plus increase of compensation.

George A. Eynon, Park Ranger, \$80 per month and quarters, plus increase of compensation.

Walter Toevs, Park Ranger, \$80 per month and quarters, plus increase of compensation.

Harold P. Hagge, Park Ranger, \$80 per month and quarters, plus increase of compensation.

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Anton Koncilya, appointed temporary Buffalo Herder, at \$80 per month and quarters, plus increase of compensation, appointment cancelled.

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In addition to the regular employees listed above under appointment, the following were employed temporarily by the day:



	<u>June 1st</u>	<u>June 30th</u>
Truck Drivers	5	12
4-Horse Teamsters	7	19
2-Horse Teamsters	13	27
Plumbers	2	2
Plumbers helper	1	1
Foremen	7	19
Skilled Laborers	5	9
Special Laborers	9	20
Laborers	37	78
Carpenter	2	2
Power graderman	1	1
Irrigator	4	4
8-Horse Teamster	1	1
Cooks	7	20
Graderman	2	5
Axemen	3	3
Rough Carpenters	3	4
Waiter	1	3
Horseshoer		2
Electrician		1
Mechanic		1
Lineman		3
Painters		3
	<hr/>	<hr/>
	110	240
Appointees	<hr/>	<hr/>
	65	110
Total	175	350

### III. WORK COMPLETED

#### (a) Construction of Physical Improvements

Lake Ranger Station: This building was completed and ready for occupancy on June 18th. The outside walls were chinked; the kitchen, entry, bathroom and pantry were ceiled; all windows were placed; iron lamps and brackets were made in our shops and hung; the painting was finished and 420 square feet of flag stone was hauled from the Upper Geyser Basin and laid.

Old Faithful Comfort Stations: The two comfort stations built last year in the public automobile camp at



Old Faithful have been finished, and except for a few plumbing fixtures are ready for use. The concrete floors were laid, partition built and fly screen placed over the opening all around the buildings.

Old Faithful Sewer System: This job was completed on June 7th. The work for the month consisted principally of general cleaning up and placing the plank covering on the sedimentation tank. As considerable hot water is seeping into the tank through the concrete floor it was thought advisable to remedy this defect by placing a four inch layer of concrete over the floor. Upon the advice of Sanitary Engineer H. B. Hommon of the Public Health Service, who made a personal inspection of the work, no attempt was made to stop the seepage. Mr. Hommon intimated that the hot water might tend to treat and deodorize the sewage, and if a layer of concrete over the floor is found necessary, the work can be done later.

(b) Maintenance and Repair of Physical Improvements

West and South Side Roads: A crew of four teams and eight men in charge of Foreman Conahan, left headquarters June 1st to grade and repair all roads on the West side. Two 12" culverts were placed in the Gibbon Canyon and one at Tangled Creek. The side roads to Black Sand Basin, Morning Glory and others were also graded and repaired.

In order to have the South Entrance Road open by June 25th the crew was moved on the 20th to Dogs Head Creek, five miles below West Thumb where the roadway was washed out for a distance of about 150 feet. After repairing this place, a snowdrift located at the lower end of Lewis Lake was shoveled out. The crew then moved to the 16 mile camp below West Thumb, where a day was required to grade snow from the road, which lay from six to eighteen inches deep for a distance of a mile and a half. The crew then moved to Lizzard Creek where they will camp for some time to repair and gravel between there and Arizona Creek.

Shoshone Forest Road: Enochs' crew continued work in the Shoshone Forest until June 10th. The road was graded and repairs made to the park line. The log diversion crib opposite the mouth of Canfield Creek was extended eighty feet.

East Entrance Road: On June 1st two men began blasting the snow out of Sylvan Pass. On the 10th a shovel-



ing crew was started, and a few days later the Pass was opened to travel. Enoch's crew continued work on Sylvan Pass hill and as far as Sylvan Lake until the 20th, when they were moved to the Lake. They camped three days at the Lake, four days at Dry Creek and the last three days of the month at Upper Basin. General road repair and grader work was done on all these sections.

Dunraven Pass: On June 5th Foreman Pressley left headquarters with a crew of two teams and nine men to clear the Dunraven Pass and Mt. Washburn roads of snow. They first camped a few days near the bridge, four miles from the Canyon. In about four days the road was open to the Pass so camp was moved to that place.

By June 22nd both the Dunraven Pass and Mt. Washburn roads were open to travel but about that time considerable new snow fell, which drifted into the cuts on Mt. Washburn, again closing the road for the rest of the month.

After shoveling out the snow, this crew began general maintenance work on that section.

Mammoth Section: A crew in charge of Foreman Casey began graveling the road through Golden Gate and across Swan Lake Flats on June 6th. Gravel was secured in the pit near Golden Gate. At first a trap was used to load, the gravel being brought to the trap with teams and slips; later, a mechanical gravel loader was used.

Between Golden Gate and the old Swan Lake Camp the whole road surface was covered to an average depth of three inches. Between there and Obsidian Creek Bridge, and about two miles down the hill from Golden Gate, light graveling was done. Altogether  $2\frac{1}{2}$  miles was well graveled and  $2\frac{1}{2}$  miles lightly graveled. After grading and sloping the gravel was rolled with a steam roller.

The maintenance crew for this section began work June 15th. All roads were graded and made ready for the season. Due to the spell of wet weather sprinkling did not start until June 28th.

Sprinkling: All sprinkling crews were on their respective stations by the 20th of the month. Sprinklers are located as follows: Mammoth, Section 1, 2-horse sprinkler and 1 auto truck sprinkler; Beaver Lake Section, 2 4-horse sprinklers; Gibbon Meadows Section, 2 4-horse sprinkler; Madison Junction Section, 3 4-horse sprinklers;



Excelsior Geyser Section 2-4horse sprinklers; Old Faithful Section, 1 2-horse sprinkler; Spring Creek Section, 2 4-horse sprinklers; West Thumb Section, 1 2-horse sprinkler; Lake Section, 2 4-horse sprinklers; Trout Creek Section, 2 4-horse sprinklers and Canyon Section, 1 auto truck sprinkler.

Two extra men with a team and dump wagon are placed at each sprinkling camp to maintain the road.

Sprinkler Repair: A small crew continued work during the month, turning water into the sprinkler supply tanks, caulking tanks, repairing flume and placing the system in order for the season.

(c) Miscellaneous Improvement Work:

The Master Painter and assistant placed all large signs at Ranger Stations, Junction points and automobile camps, and painted mile signs, danger signs and other signs about loop which required attention. Engineer Burney's car was painted, and all sprinkler wagons were lettered. The interior of the Lake Ranger Station was finished and the outside stained with creosote. The floor and woodwork of the Post Chapel was cleaned and oiled.

The Master Plumber and his helpers continued work on the new laundry building in Mammoth automobile camp and installed 6000 feet of 4" galvanized iron pipe for new water supply to Old Faithful automobile camp. He is installing plumbing fixtures in the comfort station at Old Faithful and has commenced work on a second comfort station. The entire water system of the camp is being enlarged. The usual maintenance and repair work was done to the water and sewer system at park headquarters.

The Steward and Master of Transportation had three helpers in the storehouses during the month, and nine truck drivers devoted their entire time to freighting from Gardiner to Mammoth and from Mammoth to all points in the park.

Headquarters Corral: During the last half of the month three boys have taken care of the lawns under the supervision of Foreman McFarland; one man with a team has worked throughout the Mammoth automobile camp daily at general cleaning up and hauling of garbage; and one man with sprinkler wagon has taken care of the roads around Mammoth.



The Master Mechanic and his assistants overhauled Mack Truck No. 2 and did general repair and adjustment work on all other trucks and machinery. Needless to say this department is especially busy at this time of the year due to the great amount of machinery, including all road equipment, trucks, touring cars, motorcycles, etc., which must constantly have attention during these months of hard usage.

The Carpenter devoted most of his time to minor improvements and odd jobs of one kind and another.

The Blacksmiths repaired sprinkler wagons, freight wagons and graders, and shod one hundred horses.

The Power Plant was operated in the usual manner. The power plant was run constantly with the results shown in comparison with results for June, 1922, as follows:

	<u>1922</u>	<u>1923</u>
Total current generated in KW hours	17,980	30,860
Of this, sold to public utilities		
@ 5¢ per KWH	2,963.8	3,668
Consumed for street lighting	2,269	850
Balance, consumed in Government		
buildings, for power and lighting,		
lost on lines in transit	17,285.2	26,342
Peak load during month in KW	56	110

During the month of June Mr. Frank Overstreet of the Utah Light and Power Company plant at Grace, Idaho, was here for four days and helped synchronize our machines and adjust our voltage regulator. We now have 6 electric ranges and 5 tank heaters in service with 2 ranges and 1 heater awaiting installation.

The Telephone and Switchboard Office was open daily from 7:30 A. M. to 8:45 P.M. until June 20th, when the hours changed to 6:30 A.M. to 12:00 (midnight). The total business handled was as follows:

#### Switchboard Calls

On Government local lines . . . . .	9283
On Hotel Company lines . . . . .	1316
On Long Distance Connections . . . . .	<u>443</u>
Total	11,042



### Telegrams

Government Sent . . . . .	119
Commercial Sent . . . . .	<u>356</u>
Total	475
 Government Received . . . . .	71
Commercial Received . . . . .	<u>301</u>
Total	372

### Office Force

The office force was busy with usual routine work which includes orders, payment of vouchers, preparation of accounts, reports, general correspondence, etc. 1389 pieces of official mail were received and 2839 were sent out during the month.

### Sanitation

During the first half of the month, Mr. H. B. Hommon, Sanitary Engineer, was in the park. At that time mosquito extermination work was started at the Lake. Efforts were concentrated on this point and a decrease in the mosquitoes can readily be noticed there. The Hotel and Camps Companies cooperated in this work at the Lake. Other mosquito work was done under the same supervision at the Canyon Camp and Camp Roosevelt by the Camps Company although at the Canyon the work was not concentrated as much as it should have been.

The Lake sewerage system was also laid out during the month and material ordered for construction of same. Plans for that work are now under process of completion.

Comfort stations were located at the Canyon auto camp and a proposed sewerage system staked out there.

The new sewerage system at the Upper Basin was put into operation on the first day of the season and is now working efficiently.

### (d) Service to the Public

In addition to the regular information work of rangers on patrol, at stations and in the Information Office and Museum at Mammoth, special ranger guides have been at the disposal of the public since the opening of the season.



Information Office: During the past month a total of 2,294 people visited the Information Office and Museum at headquarters as compared with 3,415 for the same period last year. The difference in figures is probably due to improved methods in checking and also to the fact that there were not as many visitors at the hotels and camps early in the season as there were last year.

Although there was an apparent loss in the number of visitors the total of our sales of park publications increased from \$133.60 to \$273.65. There was a decrease in the number of free publications distributed but this is attributed to the fact that this year the literature is not given out until asked for, while last year it was placed on an open desk where visitors could help themselves. This system seems necessary to insure our free publications lasting throughout the entire season.

The following is a report of the patronage of the Museum and Information Office during the month of June:

Article	Number 1922	Price	Number 1923	Price
Haynes Guide	23	\$ 17.25	113	\$ 84.75
Portfolio	67	67.00	107	107.00
Trees & Flowers			29	21.75
Prong Horn			4	1.00
Bulletin 611	3	1.50	3.	1.50
Bulletin 612	6	3.00	4	2.00
Western Map AAA			4	3.20
Glimpses	29	2.90	59	5.90
Geological History	137	13.70	130	13.00
Geysers	92	9.20	133	13.30
Fossil Forests	69	6.90	77	7.70
Whitebar Elk			8	1.20
Fish	23	1.15	32	3.20
Truthful Lies	23	5.75	25	6.25
Panoramic Views	14	3.50	2	.50
U. S. G. S.	7	1.75	12.	3.00
		\$ 133.60		\$273.65

Guide Service: Guides conducted regular parties over the formations at both Mammoth and Old Faithful. There were two regular parties from each place making a total of



four parties a day over each formation. Rangers at Old Faithful guided 877 visitors from the hotels and 1,568 from the camps, making a total of 2,455. Figures for Mammoth were 353 from the hotel and 564 from the camps, making a total of 907. The grand total for the two places is 3,362 as compared with 4,451 for last year.

Guide parties during June were handicapped because of wet weather. It rained nearly every day during the time these parties were scheduled and many people did not care to take the walks under those conditions.

#### Park Naturalist

The present park naturalist, Dr. Frank Thone, entered upon his duties on June 10th, having supervision of the museum, of popular lecture and general educational work, and of the observation of biological and geological phenomena in the park.

The period between June 10th and June 30th was occupied as follows:

June 10-13, inclusive, touring the park with Park Lecturer W. J. Cribbs and instructing him in his duties.

June 13-22, inclusive, arranging exhibits in the museum, assisting in the opening of the information office, supervising the beginning of the popular lecture series at Mammoth Hot Springs and obtaining museum specimens and photographs for future use.

June 22-24, inclusive, accompanying party of United States congressmen on tour of the park, speaking before them at the Grand Canyon.

June 24-27, inclusive, assisting Professor Harvey of the University of Minnesota in obtaining motion microphotographs of the organisms in the waters of Mammoth Hot Springs, and conferring with him on the possibilities of obtaining an endowment for the establishment of a center for university summer studies in the park.

June 28-30, inclusive, accompanying the party of Dr. J. C. Merriam, President and Head of the Carnegie Institution of Washington, on tour around the park, and particularly examining the fossil forest of the Lamar Valley with a view to possible future studies by a member of the staff of the Carnegie Institution. This trip was continued until July 2nd.



The Museum: The most notable additions to the museum this spring have been a fine mount of a mountain sheep and one of two timber wolves, prepared under the supervision of Chief Ranger Woodring by Jonas Brothers, Taxidermists, Denver, Colorado. These have been placed on exhibition behind temporary railings, pending the preparation of suitable glass museum cases. Another splendid specimen is a mount of the whooping crane, donated by Hal G. Evarts. This will not be placed on exhibition until a suitable glass case can be furnished. Two additional museum cases have been filled, one with mineralogical specimens and the other with botanical material. Several animal skulls have been placed on exhibition, including two of mule deer with horns interlocked, brought in by Ranger Trischman.

The Information Office: Although the park naturalist does not have any formal connection with the work of the information office, he renders assistance as occasion arises. He has also assisted in the arrangement of maps, pictures, etc. Miss Harriet Geithman, of Seattle, has been given facilities in the information office for the furtherance of her work in interesting visitors in Mount Rainier National Park.

Natural History Observations: The Park Naturalist has not had sufficient time for making anything like complete observations on biological and geological phenomena, but two prominent facts may be noted: First, due to the unusually wet, cold weather during June, many early spring flowers were still in bloom at the end of the month, and the usual migration of elk and other animals to the higher altitudes was notably delayed this year. Second, there seems to be a decided increase in the activity of most of the springs on the terraces at Mammoth Hot Springs. This is notably the case with Hymen Terrace, Jupiter Terrace and Angel Terrace. A new, very active small spring has broken out about fifty yards above Jupiter Terrace, and the new spring which broke out last year behind Mound Terrace is still active. Rainbow Terrace is inactive.

The Lecture Service: This year the lecture work at Mammoth Hot Springs is being carried on by Mr. William J. Cribbs of the University of Chicago. He is delivering the usual three lectures each evening at the permanent camp, the hotel and the automobile camp, and is doing excellent work. Mr. Cribbs is also making photographs for the park publicity service.



#### IV. WORK IN PROGRESS

##### (a) Maintenance and Repair of Physical Improvements

Log Guard Rails: Work of constructing standard log guard rails on the Tower Falls road and in the vicinity of the Canyon was continued during the month. On the Tower Falls Road 280 feet of guard rail was built on the approach to the high bridge over the Gardiner River, and the existing rail near the four mile post was extended 176 feet.

At the Canyon 192 feet of rail was built at the approach to the Chittenden Bridge from the Lake; 432 feet was built at a place one-half mile further on toward the Lake; 192 feet on the Artist Point Road opposite the Upper Falls and 80 feet at Artist Point.

A masonry retaining wall on which will be placed a log guard rail mounted on masonry piers is under construction along the south approach to the Canyon Arch bridge. This wall is replacing a section of badly rotted log cribbing. During the month the footing for the wall was excavated for a distance of 250 feet and 60 perch of masonry completed.

Trails: During the month a crew of five men were at work constructing new trails and repairing old ones. New construction totalled 7 miles and repair work 20. A new trail was built to the summit of Sepulcher Mountain.

##### Improvements by Park Utilities

##### Y. P. Transportation Company:

Mammoth - Completion of addition to mess house and addition to bunk house.

Erection of sufficient tents to accommodate forty drivers.

Received ten new busses.

West Yellowstone - Completion of plumbing, wiring and sewerage system for mess house and bunk house. Furnished kitchen complete, dining room complete and sufficient bunks for seventy-five men.

Plastered and wired house for Agent.

Installed electric light plant and water system.

Old Faithful - Started work on new bunk house.

Had flooring, trim, windows, etc., installed in new mess house.



Y. P. Hotel Company:

Most important construction work at the Hotel Company during June was the work on the addition to the Lake Hotel; top floor finished; other floors, trim, flooring, etc., installed.

New furniture put in Lake Hotel lobby, old furniture being moved to Old Faithful Inn.

Entire new silver service installed at Mammoth Hotel and Canyon Hotel.

Very handsome mantle around fire place at the Lake Hotel completed.

Old Faithful - Work on girls' dormitory. Plastering finished and interior trim started.

Cement platform built in rear of kitchen.

Mammoth - Completion of work on new location for buffet room.

Y. P. Camps Company: Continued construction work at various camps, particularly at Mammoth, in the erection of log cottages and on the new Mammoth central building.

J. E. Haynes, Official Photographer:

For the season's business the Haynes Picture Shops were opened and put into operation at the following points:

Mammoth Hotel  
Old Faithful Inn  
Grand Canyon Hotel  
Mammoth Camp  
Old Faithful Camp  
Grand Canyon Camp  
Lake Camp  
Shop at Mammoth Hot Springs  
" " Upper Geyser Basin  
" and store at Tower Falls.

The addition to the General Office at Mammoth was completed and the re-decorating, both inside and outside, of the Upper Basin Shop. New locations for shops in Mammoth Hotel and Mammoth Camp were established and all other shops were generally overhauled. The Upper Basin Shop was remodeled.



Added to the photographic equipment a new closed body truck (Dodge) especially equipped for facilitating the taking of photographs throughout the region.

New photographs secured include those of the President's party, the Gardiner station, miscellaneous group and automobile pictures.

The photo-finishing plant at Mammoth was opened up and put into operation with a larger corps of assistants than ever before. Two more 48 gallon developing tanks were added.

#### V. WORK BEGUN

Water System, Canyon Public Automobile Camp: To provide an adequate and permanent supply of water for the Canyon Public Auto Camp, work was begun on a system which includes the construction of a 25,000 gallon storage reservoir; a dam across Cascade Creek, five feet high and thirty-four feet long; a concrete pump house to house two hydraulic rams; the placing of 3400 feet of 4 inch water line and placing of several hundred feet of  $1\frac{1}{2}$ " laterals.

At the end of the month the dam site had been excavated, a temporary crib constructed to divert the current of the creek to one side and gravel hauled for making concrete. The reservoir site was excavated and forms constructed with reinforcing steel in place, ready for pouring concrete.

Comfort Stations at Canyon: Work was begun on the construction of four comfort stations, authorized for the new public automobile camp at the Canyon. The buildings will be of the combination type and are 12 feet by 22 feet in size. The concrete foundations are in place and some of the logs for the frame work are cut and hauled.

#### VII. POLICIES

No changes to note for May.

#### VIII. COST OF OPERATION

The cost of operation of Yellowstone National Park will be shown on the Cost Accounting Report for the month of June, which report will be forwarded shortly.



## IX. OTHER MATTERS OF INTEREST

### Wild Animals

General: There has hardly been any time in the past that we have had a more promising game outlook than at present. Heavy rains during the growing stage of our forage crops have resulted in an unusually fine crop of grass in all sections of the park. At the end of June, last year, the forage on our important winter ranges was practically burned out. On the same date this year grass is still green in the lowest park altitudes, which is unusual for this time of the year even under normal conditions. No amount of hot weather during the coming July and August can make our forage conditions as bad as they were last year as the grass has reached a period of growth where hot weather will cure and not burn it. Only the most severe winter conditions can cause any great loss to park game. Even if there is a great deal of snow, there will be ample forage underneath.

The weather conditions have also been excellent for our hay crops. Growth at present is well advanced and much seed that did not germinate last spring is showing up this season. From present indications we should have a record hay crop.

Elk: The elk were rather late in getting started back to the summer ranges but moved very rapidly when they did start. Early in the month they could be seen by the hundreds along the park roads but towards the end of the month they were not very numerous. However, there were always some to be seen by a careful observer.

The calf crop appears to be above normal. In one band of about 50 elk 26 calves were noted and there were no doubt more in the herd.

On June 16th a band of 16 were placed in the pasture at the Buffalo Corral near Mammoth, as is customary during the tourist season, and they will be seen by thousands of visitors during the coming summer.

Deer: The deer have all left for the higher park elevations. The pets around Mammoth moved away from headquarters about June 15th. Several fawns have been seen.



Antelope: This animal is now on his summer range. A number of kids have been noted and we will no doubt have a good increase this year.

Moose: Moose have been seen in unusual places during the past month. Several within a half mile of Mammoth Hot Springs, and in other places where they have not been ranging in the past.

Buffalo. Wild herd: No observations have been made and consequently there is nothing new to report.

Buffalo. Fame herd: The main herd ranged on Mt. Norris as is usual during the spring and summer. On the first of July there were 86 calves.

Bears: This animal has shown up in greater numbers than at any time in the last five years. At the Lake there is an average of eleven bears on the dump each evening, with two grizzlies as regular visitors. The pits at the Canyon Hotel show an unusual number each night, an average of twenty grizzlies being present each night, together with several brown and black bears.

In addition to these, the Jesse James bear is at work again between the Lake and Thumb, and there are many other bears to be found around the camps and hotels at all times of the day. There is an unusual number of cubs in evidence and during the coming month they will be carefully counted in order that we may get a check on this year's increase.

Smaller Animals: All other animals, including rabbits, beaver, etc., are in good condition.

#### Fish and Fish Planting

Fishing: After the frequent rain storms ceased and the period of flood waters was over fishing became excellent and records show that a total of 3,104 fish were taken from park waters by private motorists since June 21, 1923.

Fish Planting: During the month a total of 50,000 brook trout fingerlings, received from the Montana State Hatchery at Emigrant, Montana, were planted in park streams. The following is a detailed statement of the plants:



May 29th	Lava Creek	15,000 *
June 1st	Glen Creek	17,500
June 4th	Obsidian Creek	<u>17,500</u>

50,000

\* Not previously reported.

### Dogs

Paragraph 13 of the Rules and Regulations states: "Dogs are not permitted in the park, except that, by special authority of the superintendent, they may be transported through the park provided they are kept under leash, or in a crate, while within the confines of the park."

As a matter of interest to the National Park Service and as a measure of possible future precaution against the admission of dogs to the park, a check is being taken on the number brought into the park by private motorists and if at the end of the season figures show the number to be very large it is possible that a new ruling may be suggested forbidding their admission. During the month of June, 1923, 234 dogs were brought in.

### Arrests and Violations of Law

There were no trials before the United States Commissioner for violations of park regulations. Rangers in the park performed their usual task of correcting visitors for minor infractions of park rules.

On June 26th two Fords with Nebraska Licenses #15-407 and 15-1437, left a fire burning at Mammoth Camp. They were arrested on the 29th at Old Faithful and reprimanded for their carelessness.

On June 17th, Edward James was taken into custody at the Gardiner Ranger Station. He had been wandering around in the park for several days in a demented condition. He was turned over to the sheriff at Livingston, Montana.

On June 22nd, three women in a Ford car, Washington License, were arrested on orders from the Sheriff of Gallatin County, Montana. They were arrested at Old Faithful on a charge of defrauding an innkeeper and were turned over to the sheriff.



On June 26th, the sheriff at Shelby, Montana, requested that we arrest and hold Fred Reynolds and Frank Bradley on charges of forgery and selling narcotics. Reynolds had left the park several days before but Bradley was arrested at Mammoth Camp and turned over to the Sheriff at Livingston.

On June 22nd four men, traveling in an Illinois Ford, were arrested on complaint of Mr. Howard H. Hays, of the Y. P. Camps Company. They were charged with stealing blankets from Old Faithful Camp. Careful search failed to reveal the missing articles and the party was therefore released.

#### Accidents and Casualties

Accident at Upper Basin: On June 27, 1923, Transportation Company Bus #19, bound from Old Faithful to Yellowstone Lake, was struck by a falling tree about a quarter of a mile beyond Old Faithful Camp. The tree was a dead lodge-pole pine about twelve inches in diameter and stood about thirty feet to the right of the road. It struck the car on the back of the third seat from the rear and broke into three pieces. The people most seriously injured were in the second seat from the rear, and one man in the rear seat was injured slightly.

The following are the names of the persons injured, with a description of the character of the extent of the injuries:

Mrs. Calina Brothers - Slight contusion of the left forearm.  
" abrasion of the right leg.  
" contusion and abrasion on right thigh.  
Severe contusion of the right flank and kidney region, extending internally and including the appendicidal region.  
Possible internal injuries.

Mr. J. L. Wolfe - Superficial laceration of the forehead  $1\frac{1}{2}$  inches long.

Mrs. R. S. King - Slight abrasion of the left breast.  
" contusion left antaxillary line.  
" " " costal margin  
Contusion, possible tear of capsule left elbow



Questionable fracture of ulna at olecranon.  
Possible internal injuries.

Mr. R. S. King - Contusion of left elbow. Possible torn  
capsule and questionable fracture of the ulna  
head.  
Deep contusion in lower left quadrant of abdomen.

Other passengers in the car were:

Mrs. J. L. Wolfe, Mr. and Mrs. E. I. Fleming and  
son, Mr. W. O. Ryburn, Mr. Ren Brothers, Mr. H. L. Lorraine  
and wife.

According to statements made by members of the  
party the car was moving at a moderate rate of speed and  
the tree was over the car before it was noticed. The driver  
put on more speed to clear the road before the tree reached  
the ground. When he heard the crash of the tree as it struck  
the car he stopped in a very short space.

A high wind was blowing at the time of the accident.

Had the tree not broken when it struck the car all  
the people in the two rear seats would have been hurt and  
in all probability some would have been killed.

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Accident at Virginia Cascades: On June 26th, Mr.  
A. Nelson, driving a Ford car, California 859-513, bound  
from Canyon to Morris, met another Ford, Montana 18,167,  
driven by Mr. McMorris, on the sharp turn at Virginia Cas-  
cades, and a collision resulted.

Mr. McMorris admitted that he was at fault and paid  
damages to Mr. Nelson, amounting to \$15.00. No one was hurt  
and the California car was the only one damaged. The damages  
were: bent front axle, bent spindle and a punctured tire.

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Accident at Beryl Springs: On June 25th, Y. P.  
Transportation Company Truck No. 6 ran into a Ford near  
Beryl Springs, and bent his rear fender. He claims he was out  
of the road but the truck driver says that he was parked in such  
a position that it was impossible to get by him. The owner of  
the car, Mr. M. E. Johnson, stated his intention to file a com-  
plaint against the truck driver but to date he has not done so.



### Special Visitors

Among the special visitors to the park were: The

The President of the United States and his party -  
In Gardiner Out Gardiner, June 30th-July 1st. The party consisted of the following members:

President and Mrs. Harding  
Secretary of the Interior and Mrs. Work  
Secretary of Agriculture, Hon. Henry C. Wallace  
General and Mrs. Chas. E. Sawyer  
Hon. Geo. B. Christian, Jr., Secretary to  
the President.  
Hon. Frederick H. Gillett, Speaker of the House  
Captain Adolphus Andrews, U.S.N., Aide to the  
President.  
Major O. M. Baldinger, U.S.A., Aide to the  
President.  
Mr. Judson C. Welliver  
Mr. and Mrs. Malcolm Jennings  
Governor Wm. Spry, Commissioner General Land Office  
Admiral Hugh Rodman, U.S.N., and Mrs. Rodman  
Col. W. B. Greeley, Chief Forester, U. S.  
Forest Service  
Mr. E. R. Bartley, Associated Press  
Mr. George R. Holmes, International News Service  
Mr. Lawrence C. Martin, United Press  
Mr. James R. Nourse, Universal News Service  
Mr. Richard V. Calahan, New York Times  
Mr. Louis Seibold  
Mr. Charles Michelson, New York World  
Mr. Carter Field, New York Tribune  
Mr. Robert Barry, Philadelphia Public Ledger  
Mr. H. P. Stokes, New York Evening Post  
Mr. Grafton S. Wilcox, Chicago Tribune  
Mr. Robert L. Norton, Boston Post  
Mr. Charles G. Ross, St. Louis Post-Dispatch  
Mr. Robert B. Armstrong, Los Angeles Times  
Mr. Arthur J. Simmott, Newark News  
Mr. Carl Smith, Oregon Journal  
Mr. J. Hayden, Detroit News  
Mr. Millard J. Bloomer, Co-operative Newspaper  
Syndicate  
Mr. Frank R. Kent, Baltimore Sun  
Mr. Stephen T. Early, Associated Press  
T. M. Foote, Western Union  
Mr. H. M. Bain, Secretary to Mr. Wallace  
Mr. W. J. Donald, Secretary to Dr. Work



Mr. E. W. Smithers, Official Secretary  
of the party.

Messrs. M. J. McDermott and J. W. Murphy,  
stenographers to the President's  
party.

Photographers:

Mr. N. B. Nichol, Kinograms  
Mr. K. W. Passold, Pathe News  
Mr. John Painter, Fox Film Company  
Mr. E. Carl Wallon, International News Reel Co.  
Mr. Henry Miller, Keystone View Company  
A representative of Kadel Herbert Picture News

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Arthur Brooks, Valet to the President  
Mrs. Powderly and Miss Winn, maids to  
Mrs. Harding.

Nine Secret Service men under leadership  
of Richard Jarvis.

Several telegraphers, messengers, baggage  
men, and W. P. Shipley, General  
Passenger Agent, Baltimore and Ohio  
Railroad.

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We will not go into detail as to the President's trip in this report. There are inclosed copies of all of the circulars and orders issued with reference to the conduct of the party through the park, all of which will show that the most careful and painstaking efforts were made to see that the trip was carried out on schedule and with uniform pleasure and comfort to all members of the party. The train arrived at 6:00 A.M., June 30th, and departed from Gardiner at 7:00 P.M. July 1st. The party left the train shortly after 7:30, June 30th, and the President's car was escorted through the entrance arch by a mounted guard of eleven rangers, in command of the Chief Ranger, Sam T. Woodring. The entrance of the President to the park was duly recorded by many motion picture cameras.



Breakfast was served to the party at Mammoth Hotel and about 8:30 the President and Mrs. Harding received all members of the park community as well as several hundred visitors to the park. The reception was held at the hotel. After the reception the party visited the Buffalo Corral, observed the buffalo and elk there, stopped a moment at the new Mammoth Permanent Camp, then inspected a few of the great terraces of Mammoth Hot Springs.

As the party entered Upper Geyser Basin the powerful and beautiful Riverside Geyser erupted with wonderful water and steam effects. Luncheon was served at Old Faithful Inn. Early in the afternoon the Secretary of the Interior, Director Mather and I inspected the hotel, permanent camp, ranger station and automobile camp at Upper Geyser Basin. At 4:00 P.M. the President and Mrs. Harding and many other members of the party visited Black Sand Basin and later saw the Grotto, Grand and Old Faithful Geysers in eruptions. From 6:00 to 7:00 P.M. the Grand Geyser gave a most wonderful display. It played ten times in quick succession with powerful and beautiful eruptions.

The night was spent at Old Faithful Inn. at 8:53 A.M., July 1st, the party left Old Faithful Inn, crossed the Continental Divide, stopped fifteen minutes at the West Thumb of Lake Yellowstone and shortly after eleven A.M. were stopped at the Fish Hatchery on Lake Yellowstone, near the Lake Hotel, by two bears which had been held up a tree by rangers. The bears were photographed coming down the tree, the President's car being in the close background. Later, the President made friends with the bears, feeding them, much to the delight of the newspaper and picture men as well as the scores of visitors gathered about.

The Canyon Hotel was reached for luncheon. After this a trip was made along both rims of the Grand Canyon. The party returned to Mammoth via Dunraven Pass with stops at Camp Roosevelt and to observe antelope. After a short stop at Mammoth Hot Springs the party returned to Gardiner and entrained about 6:45 P.M.

The entire trip was made without the slightest mishap. There was not even a puncture of a tire. The party observed elk, deer, bear, buffalo, antelope and many smaller animals, as well as numerous species of birds, including a wild grouse with about a dozen chicks. The roads were in perfect condition, in fact, I have never seen them better. Service at the hotels, permanent camps and on the transportation line was splendid.



In addition to handling the Presidential party of approximately 80 individuals over 2,200 other visitors were handled each day the party was in the park.

Receptions were held by the President at Mammoth Hotel, Old Faithful Inn, Lake Hotel, Lake Camp and Canyon Hotel, but hundreds of visitors met the President as he stopped at various points of interest.

The Superintendent of the Park and Mr. H. W. Child, President of the Hotel and Transportation Companies, rode with the President, while Director Mather conducted the Secretary of the Interior through the park.

A fishing party was organized for the afternoon of June 30th and another for the morning of July 1st and gratifying catches were made by each group. In due time pictures of the Presidential Party in the park will be sent for the records of the Service. In addition to circulars, orders, etc., above mentioned as being inclosed herewith, I attach copies of the Livingston Enterprise, Yellowstone Park Tourist Edition, of June 30th, which contains much information regarding the plans for the President's trip. The President was much pleased with the reproduction of the news from the Marion Star. I also inclose a copy of the Enterprise of July 4th including the full text of the President's speech at Livingston on the night of July 1st.

#### Congressional Party

In Gardiner Out Cody, June 22nd-24th, inclusive.

I have already submitted a report on the visit of the Congressional party but for convenient reference here is another statement of the names of the members of the party:

Senator F. E. Warren of Wyoming, and wife  
" J. T. Robinson of Arkansas, and wife;  
and Secretary H. C. Miller  
" E. F. Ladd of North Dakota, and wife.

#### Congressmen:

C. L. Abernathy of North Carolina, and wife  
C. R. Crisp of Georgia and wife  
E. C. Michener of Michigan, wife and two children.



Harry E. Hull of Iowa, and wife  
 P. E. Quinn of Mississippi, and wife  
 J. E. Rankin of Mississippi  
 Gordon Lee of Georgia  
 J. G. Strong of Kansas, and wife  
 E. T. Taylor of Colorado, and wife  
 C. L. Underhill of Mass., and wife  
 S. E. Winslow of Mass., and wife  
 W. R. Wood of Indiana, and wife  
 H. M. Wurzbach of Texas, and wife  
 P. H. Zihlman of Maryland, and wife  
 O. B. Burtness of North Dakota, and wife  
 Mrs. L. C. Cranton, wife of Congressman  
 L. C. Cranton, of Michigan.  
 Miss E. Anthony, daughter of Congressman  
 D. R. Anthony of Kansas  
 Brigadier General Briant Wells and wife  
 Major Max R. Wainer and wife  
 Col. John H. Carroll of the C. B. & Q. Ry.  
 A. Cotsworth, General Passenger Agent  
 C. B. & Q. Ry.  
 Mr. and Mrs. Roe Emery, of the Glacier  
 Park Transportation Company.

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Director Stephen T. Mather, of the National Park Service,  
 entered West Yellowstone gateway the morning of  
 June 28th and will probably remain through the  
 entire month.

Congressman C. A. Newton, from St. Louis, Missouri, came  
 in West Yellowstone June 28th and left via the  
 same gateway on July 2nd.

Congressman Ralph F. Lozier, Second Missouri District,  
 entered the Northern entrance of the park in his  
 own car with his family June 29th.

Dr. John C. Merriam, President Carnegie Institution, with  
 wife and two boys, came in Gardiner June 28th and  
 left via the same gateway July 2nd.

Hon. Henry O'Malley, United States Commissioner of Fisheries,  
 and Mrs. O'Malley, in Gardiner Out West Yellowstone  
 June 13-June 22, inclusive. With Mr. O'Malley were  
 Mr. A. H. Dinsmore, Superintendent St. Johnsbury,  
 Vermont, Hatchery; also Mr. J. H. Brunson, Commissioner  
 of Fisheries of Montana.



On June 21st Mr. Bliss Bain, Commissioner of Fisheries of Wyoming, visited the park, entering via Gardiner and leaving via Cody on the 22nd.

(All of these men interested in fish and fisheries conferred together in the park and also conferred with me.)

Colonel Alvin M. Owsley, National Commander of the American Legion, in Gardiner Out Gardiner, June 7-10, inclusive. With the Colonel were: Mr. O. C. Lamport, Department Adjutant of the American Legion of Montana, and Mr. Chester, secretary.

Mr. P. J. Leverone, Draftsman of the Washington office, National Park Service, entered Gardiner June 30th and left via Cody June 25th.

Mr. J. V. Evenden, U. S. Bureau of Entomology, was in the park June 8-11, in and out via Gardiner. He came to study the forest conditions with special reference to the blight or insect infestation that is killing the spruce and fir in the Hellroaring district.

Mr. I. I. Boak, Head Counselor of the Woodmen of the World, was in the park June 25th and 26th, making further preparations for the Grand Convention of the W.O.W. which is to be held at Mammoth Hot Springs in June, 1924.

Major General Chas. G. Norton, in command of the Western Military District, U. S. Army, with headquarters at San Francisco, was in the park June 21-23, coming and going via West Yellowstone.

Mr. C. G. Burnham, Executive Vice President of the C. B. & Q. Railway, entered via Gardiner June 26th and left via the Northwest entrance, down the Gallatin Valley, July 2nd. Mr. Burnham had his family with him.

Massachusetts Forestry Association, under the leadership of Harris I. Reynolds, Secretary, entered the park via Cody June 29th and left via Gardiner July 4th.

Dr. John Wesley Hill, Chancellor of the Lincoln Memorial University, accompanied by Mr. E. F. Benson, Immigration and Colonization Agent of the Northern Pacific, and their families, were in the park June 20th and 21st and until noon of the 22nd, entering and leaving via Gardiner.



Mr. A. B. Smith, Passenger Traffic Manager of the Northern Pacific Railroad, entered the park June 20th and left June 23rd, coming and going via Gardiner.

Assistant General Passenger Agent M. M. Goodsill, of the Northern Pacific, entered via Gardiner June 19th and left on the 23rd. He again visited the park on June 30th with the Presidential party.

Vice President Rapelje of the Northern Pacific, was at Gardiner with the Presidential party June 30th.

Passenger Traffic Manager W. S. Basinger, of the Union Pacific System, entered the park June 29th with Director Mather, visited Old Faithful and left the same night via West Yellowstone.

President Heber J. Grant, Church of Jesus Christ of the Latter Day Saints (The Mormon Church), and Mrs. Grant, entered the park June 29th with Director Mather, visited Old Faithful, Grand Canyon and Lake Yellowstone, and left via West Yellowstone July 1st.

Major Rupert Hughes, Novelist and playwright, entered West Yellowstone on the 23rd and went out the same gateway on the 27th.

#### Yellowstone Park Newspaper

Attached to this report you will find several copies of the Livingston Enterprise, Yellowstone Daily Tourist Edition, which is to all intents and purposes a Yellowstone Park paper. This paper has proved to be very popular and is making tremendous strides in more completely tying up the town of Livingston to the park. The paper is in complete harmony with all of the policies and principals that govern the National Park Service and is particularly devoted to the policy of complete conservation. We are supplying news to the paper and are furthering its sale in every feasible manner. Great credit for the issuing of this paper is due Mr. L. E. Flint, News Editor, and Mr. J. Thomas Melton, the General Manager of the Enterprise.

#### Sickness and Medical Attention

Dr. Jas. M. Wolfe, National Park Service physician, continued his medical service in the park during the month and reports having made 55 professional calls on park people



and 58 office calls.

Dr. Riskalden, of San Francisco, arrived in the park on June 13th and will serve throughout the season as physician for the Yellowstone Park Transportation Company.

#### Post Office

The amount of business in the Post Office indicates a general increase over a similar period a year ago of more than one-third for the quarter ended June 30th, but most of the increase came since the opening of the park season on June 20th.

#### Religious Services

Services by Rev. W. Friend Day  
of the Episcopal Church,  
this district.

Services by Rev. Geo.  
Kochler, English  
Lutheran Church, Liv-  
ingston.

June 10 - Morning service

" 24 " "

24 " "

June 6 - Evening service

13 " "

20 " "

25 " "

#### II. RECEIPTS AND REMITTANCES

Certified Check #1139, dated June 14, 1923,

drawn by E. W. Child on the  
National Bank of Montana, Helena,  
Montana, to the Director, National  
Park Service, amount ..... 11.35

Certified Check #3561, dated June 7, 1923,

drawn by Elizabeth Trischman on  
Yagan Bros., Bankers, Gardiner,  
Montana, to the Director, National  
Park Service ..... 1.25

Certified Check #563, dated June 15, 1923,

drawn by J. R. Haynes on Yagan  
Bros., Bankers, Gardiner, Montana,  
to the Director, National Park  
Service, amount ..... 1.25



Postal Money Order #51842, dated June 5,  
1933, drawn by the Postmaster of  
Yellowstone Park, on the Post-  
master at Washington, D. C.,  
amount .....

3.75

Total

\$ 18.23

Cordially yours,

Horace M. Albright,  
Superintendent.

The Director,  
National Park Service,  
Department of the Interior,  
Washington, D. C.

Inclosures.

J38

*(Note for file copy: Newspapers  
accompanying this report  
filed in separate envelope.)*



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

# MONTHLY METEOROLOGICAL SUMMARY.

Station, **YELLOWSTONE PARK, WYO.**; month, **JUNE, 1923.**, 19

e.	TEMPERATURE. (Degrees Fahrenheit.)			Precipitation. (In inches and hundredths.)	Character of day.	Sunshine. percent- age.	ATMOSPHERIC PRESSURE. (Reduced to sea level; inches and hundredths.)	
	Max.	Min.	Mean.				Mean	lowest
	49	33	41	.02	PtClay	49	29.87	29.36
	65	30	48	0	Clear	99	30.31	28
	53	36	44	0	Cloudy	34		16
	60	32	46	.22	PtClay	50	TEMPERATURE.	
	55	42	48	.32	Cloudy	13	Highest	80
	62	42	52	.11	Cloudy	27	date	12
	64	40	52	.01	PtClay	44	lowest	29
	64	40	52	.01	PtClay	48	date	14
	71	38	54	T	Clear	92	Greatest daily range	42
	73	40	56	0	PtClay	64	Least daily range	9
	76	44	60	.02	PtClay	65	Mean for this month in	
	80	47	64	.01	PtClay	85	1871	80
	57	33	45	0	Clear	98	89	57
	71	29	50	0	PtClay	83	98	55
	75	40	58	0	PtClay	93	07	49
	77	40	58	.04	PtClay	85	16	50
	54	41	48	.04	Cloudy	9	1872	81
	63	38	50	.01	PtClay	53	90	54
	62	39	50	.09	PtClay	47	99	53
	67	38	52	.05	Cloudy	44	08	49
	54	43	48	.63	Cloudy	13	09	55
	50	41	46	.31	Cloudy	3	10	56
	63	36	50	.05	PtClay	84	11	56
	58	41	50	.04	Cloudy	21	12	55
	69	35	52	0	Clear	100	13	55
	69	38	54	.08	PtClay	72	14	53
	63	44	54	.03	PtClay	53	15	49
	72	40	56	0	Clear	94	16	50
	77	42	60	0	Clear	81	17	51
	79	43	61	.01	PtClay	73	18	60
							19	59
							20	52
							21	58
							22	58
							23	52
							24	
							Normal for this month	
							56.0	
							Absolute maximum for this month for	
							36	
							years	
							92	
							Absolute minimum for this month for	
							37	
							years	
							20	
							Average daily excess (+) or deficiency (-) of this month as compared	
							with the normal	
							-4.0	
							Accumulated excess (+) or deficiency (-) since January 1	
							-361	
							Average daily excess (+) or deficiency (-) since January 1	
							-2.0	
							PRECIPITATION.	
							Total this month	
							2.10	
							snowfall	
							0.1	
							Greatest precipitation in 24 hours	
							0.68	
							date	
							20-21	
							Snow on the ground at end of month	
							0	
							Total precipitation this month in	
							1871	80
							89	0.66
							98	2.67
							07	2.91
							16	2.36
							1872	81
							90	0.94
							99	1.90
							08	3.30
							17	0.67
							1873	82
							91	3.05
							00	1.17
							09	0.75
							18	2.97
							1874	83
							92	1.46
							01	1.43
							10	0.61
							19	0.14
							1875	84
							93	0.30
							02	1.87
							11	2.20
							20	1.18
							1876	85
							94	3.10
							03	0.90
							12	1.21
							21	1.13
							1877	86
							95	2.71
							04	1.03
							13	2.09
							22	0.56
							1878	87
							96	0.73
							05	3.05
							14	2.48
							23	2.10
							1879	88
							97	2.54
							06	0.91
							15	2.00
							24	
							Normal for this month	
							1.64	
							Excess (+) or deficiency (-) of this month as compared with the nor-	
							mal	
							40.46	
							Accumulated excess (+) or deficiency (-) since January 1	
							-2.49	
							MEAN RELATIVE HUMIDITY (Percentage).	
							6	a. m., 79
							12	noon, 43
							6	p. m., 44
							WIND.	
							Prevailing direction	
							South	
							total movement	
							5234	
							miles;	
							average hourly velocity	
							7.3	
							maximum velocity (for five	
							minutes)	
							36	
							miles per hour, from	
							south	
							on	
							24	
							WEATHER.	
							Number of days, clear	
							6	
							partly cloudy	
							16	
							cloudy	
							8	
							on which .01 inch, or more, of precipitation occurred	
							20	
							MISCELLANEOUS PHENOMENA (dates of).	
							Auroras	
							0	
							halos; solar	
							0	
							lunar	
							0	
							Hail	
							0	
							sleet	
							0	
							fog	
							0	
							Thunderstorms	
							6, 7, 8, 11, 12, 18, 20, 22, 23, 26, 30	
							*Frost: light	
							0	
							heavy	
							2, 4, 14	
							killing	
							0	
							Total.	
							65.1	
							38.8	
							52.0	
							2.10	
							59	

NOTE.—"T" indicates trace of precipitation.

In the autumn frosts are not recorded after the occurrence of "killing," except in Florida and along the immediate coast of the Gulf of Mexico.

E. H. Fletcher, Observer.

Weather Bureau.



WEATHER BUREAU.

MONTHLY

## METEOROLOGICAL SUMMARY.

STATION

Yellowstone Park Wyo

MONTH

JUN 1923

79

B-10660



Department of the Interior  
National Park Service  
Yellowstone National Park  
Yellowstone Park, Wyoming.

June 30, 1923.

MEMORANDUM FOR CORRESPONDENTS AND PHOTOGRAPHERS ACCOMPANYING  
PRESIDENTIAL PARTY THROUGH YELLOWSTONE NATIONAL PARK. THIS  
MATERIAL IS FURNISHED MERELY AS CONVENIENT REFERENCE AND IS  
NOT INTENDED AS AN ARTICLE. POINTS DESCRIBED ARE THOSE  
WHERE BEST NEWS OR PHOTOGRAPHIC MATERIAL IS LIKELY TO ORIGI-  
NATE. ADDITIONAL DETAILED INFORMATION IS FOUND IN THE BOOK-  
LET ON "RULES AND REGULATIONS OF YELLOWSTONE NATIONAL PARK,"  
WHICH WILL BE FURNISHED UPON REQUEST

ITINERARY OF PARTY

Saturday, June 30th -

Arrive Gardiner at 6:00 A. M.  
Leave Gardiner at 7:30 A. M.  
Breakfast at Mammoth Hotel, 8:00 - 9:00 A. M.  
Receiving about 100 citizens at Mammoth Hotel, 9:00 - 9:30 A.M.  
Inspection Mammoth Terraces, Buffalo and Elk, etc. 9:30-10:00 A.M.  
Leave Mammoth Hot Springs at about 10:00 A. M.  
Arrive at Upper Geyser Basin at 1:00 P. M.  
Luncheon at Old Faithful Inn  
Afternoon and night at Old Faithful

Sunday, July 1st -

Leave Old Faithful early, possibly at 8:30 A. M.  
Those desiring to fish will stop for hour or more at Yellowstone  
Lake, and may have luncheon at Lake Hotel if they choose.  
Main party will proceed to Canyon Hotel for luncheon, stopping  
enroute at Artist Point for view of Canyon and Falls.  
At about 2:30 P. M. entire party will leave Canyon Hotel for  
Mammoth Hot Springs, via Dunraven Pass.  
After brief stop at Mammoth Hot Springs party will proceed to  
Gardiner and entrain 6:30 - 6:45 P. M. Dinner on train.

GEOGRAPHY

The Yellowstone National Park is approximately sixty two miles  
long and fifty-four miles wide, making an area of 3,348 square miles.  
This area, 3,114 square miles are situated in Wyoming, 198 square  
miles in Montana, and 36 square miles in Idaho.

Yellowstone is the largest national park, and probably most widely  
known. The natural features of most extraordinary interest are the  
geysers, which are more numerous here than elsewhere in the world; and the  
Falls and Grand Canyon of the Yellowstone.

The entire region is volcanic, both mountains and the great in-  
terior plateau consisting of material once ejected from the depths of the  
earth. Geologists believe that a great crater once opened just west of  
Mt Washburn.



## HISTORY

The name "Yellowstone" is a translation of the French Roche Jaune, a name given to the lower Yellowstone river by early French trappers because of the coloring of the rocks.

The first white man to visit the region now comprised within the Park was John Colter, who left the Lewis and Clark Expedition as it returned from the Northwest, in August, 1806, and remained in the upper Yellowstone country until spring of the next year.

James Bridger, a famous guide, was familiar with the Yellowstone country in the period around 1830.

There were various desultory wanderings and minor expeditions into this country for nearly a half century, but the first formal organized exploration was undertaken in 1870 by an expedition commonly known as the Washburn-Langford Expedition. This exploration attracted national attention to the Yellowstone region, and in 1871 a Joint Government Expedition was organized, representing the United States Geological Survey and the Engineer Corps of the United States Army. This party collected a large amount of data regarding the region, which hastened the movement for the creation of the Yellowstone National Park.

The idea of a national park was first suggested by Cornelius Hedges, a member of the Expedition of 1870, at a campfire near the junction of the Firehole and Gibbon rivers, the evening of September 19, 1870.

The bill creating the Park received the signature of President Grant March 1, 1872.

The semi-centennial of the Park was celebrated at Madison Junction July 14, 1922.

President Arthur visited the park, traveling by pack train, in 1883.

President Roosevelt camped in the park for two weeks in April 1903. Upon leaving, April 24, 1903, he laid the cornerstone for the northern gateway arch.

The annual attendance at the park is now approximately 100,000 and is expected to increase to 125,000 this year.

## ADMINISTRATION

The Yellowstone National Park is administered by the National Park Service, a branch of the Department of the Interior.

The local administration is directed by Superintendent Horace M. Albright, formerly Assistant Director of the National Park Service, now serving his fifth year in this post. He is assisted by Assistant Superintendent Leroy Hill, purchasing and disbursing officer; Assistant Superintendent C. A. Lindsley, postmaster and information officer; Chief Engineer A. W. Burney; Chief Ranger S. T. Woodring and Chief Clerk P. E. Bilkert.



Park headquarters is maintained at Mammoth Hot Springs, in old Fort Yellowstone, abandoned by the Army in 1916. This headquarters is in regular contact with the four park gateways, and with twenty-two ranger stations scattered throughout the Park. Seventy-two permanent and temporary rangers are now on duty.

The Chief Engineer directs the maintenance of 298.5 miles of highway within the park and 58 miles outside. During the summer 107 miles of road are regularly sprinkled.

There are 800 miles of maintained trails and 261 miles of telephone lines in the Park.

The total number of employees in the Park, including the National Park Service and the various public utilities companies is about 1800.

The chief public utilities companies within the park are the Yellowstone Park Transportation Company, which has 250 passenger automobiles in its tourist service; the Yellowstone Park Hotel Company, with hotels at Mammoth Hot Springs, Old Faithful, Yellowstone Lake and the Grand Canyon; the Yellowstone Park Camps Company, with tourist camps at Mammoth Hot Springs, Old Faithful, Lake Yellowstone, the Grand Canyon and at Camp Roosevelt near Tower Falls. An official photographer, J. E. Haynes, has twelve photographic shops within the park. There are general merchandise stores at the important points of interest.

Over 50,000 people each summer use the free automobile camping grounds, which are located near each point of interest, and provided with wood, water, sanitary facilities, etc.

#### MAMMOTH HOT SPRINGS

Headquarters for the park is maintained here, and it is the residence of a considerable colony during the entire year. The big green space was a cavalry parade ground in the period when the Park was administered by the United States Army.

Famous peaks visible from Mammoth are Electric Peak, 11,155 feet, highest in the Park; Sepulchre Mountain, 9500 feet; Mount Everts, 7900 feet, and Bunsen Peak, 8600 feet.

The Mammoth Hot Springs terraces are the points of chief interest. Most important of these are the Jupiter, Minerva, Cleopatra and Hymen terraces. A point of particular interest is the Liberty Cap, an extinct hot-spring cone, standing forty feet above the surrounding formation. This spot is much-favored by photographers.

Buffalo and elk corrals are nearby.

#### GEYSERS OF YELLOWSTONE PARK

There are five active geyser basins in the Yellowstone National Park - the Norris, the Lower, the Upper, the Heart Lake and the Shoshone basins. In the Upper Basin are found more geysers and larger geysers than at any other basin in the world. Outside the Yellowstone, large ~~geyser~~ geyser basins are found only in Iceland and New Zealand.

Geysers occur only at places where the internal heat of the earth approaches close to the surface. Their action is explained as follows:



"Water from the surface trickling through cracks in the rocks, or water from subterranean springs collecting in the bottom of the geyser's crater, down among the strata of intense heat, becomes itself intensely heated and gives off steam, which expands and forces upward the cooler water that lies above it. It is then that the water at the surface of the geyser begins to bubble and give off clouds of steam, which warn observers that the geyser is about to play.

"At last the water in the bottom reaches so great an expansion under continued heat that the less heated water above can no longer weigh it down, so it bursts upward with great violence, rising many feet into the air and continuing to play until practically all the water in the crater has been expelled."

#### NORRIS AND LOWER BASINS

At Norris Basin the chief geysers are the Constant, the Whirligig, the Valentine and Black Growler geysers.

A new geyser appeared the last winter, above the road from the Black Growler. This geyser for a time erupted twice daily to an altitude of about seventy-five feet. Informal and unofficial suggestions have been made that this geyser be called the Harding Geyser, in honor of the President's visit.

In the Lower Basin the chief features are the Great Fountain Geyser, the Excelsior Geyser, and Prismatic Lake.

Great Fountain Geyser erupts to a height of from 75 to 150 feet for a period of 45 to sixty minutes at intervals of eight to twelve hours.

Excelsior Geyser has not erupted since 1888, but its great steaming crater, known as Hell's Half Acre, still is a point of extraordinary interest.

#### UPPER GEYSER BASIN (ALTITUDE 7300 FEET)

As the Presidential Party will be at the Upper Basin through an afternoon and evening, this is likely to be the scene of chief news and photographic interest. Old Faithful Inn, designed by Architect Robert C. Reamer, who also designed Canyon Hotel and the Gateway Arch, is regarded as one of the most interesting summer hotels of America.

The following notes describe some of the most important geysers in this Basin:

**OLD FAITHFUL** - Erupts to a height of about 150 feet for a period of four minutes, at intervals of slightly over an hour. Searchlight plays on this geyser at night. Temperature 200.1 degrees F.

**CASTLE** - Erupts to height of 50 to 75 feet for period of 30 minutes, at irregular intervals.

**DAISY** - Height, about 70 feet, duration three minutes, interval 80 to 90 minutes. Temperature 188.4 F.

**FAN** - Height, 15 to 25 feet, duration 10 minutes, interval irregular.

**GIANT** - Height 200 - 250 feet, duration 60 minutes, interval irregular, ten to twenty days. Temperature 202.7 F.



GIANTESS - Height 150 to 200 feet, duration 12 to 36 hours, interval irregular, 10 to 20 days. Temperature 200.7 F.

GRAND - Height 200 feet, duration 15 to 30 minutes, interval 10 to 12 hours.

GROTTO - Height 20 to 30 feet, duration varies, interval two to five hours. Temperature 201.0 degrees F.

LION - Height 50 to 60 feet, duration two to four minutes, interval irregular, two to seven times a day.

LIONESS - Height 80 to 100 feet, duration 10 minutes, interval uncertain. Temperature 202.1 degrees F.

RIVERSIDE - Height 80 to 100 feet, falling diagonally across Firehole River, duration 15 minutes, interval seven to eight hours, very irregular. Temperature 201.2 degrees F.

SAWMILL - Height 20 to 35 feet, duration one to three hours, interval irregular, five to eight times a day. Temperature 192.1 degrees F.

#### CONTINENTAL DIVIDE

Altitude 8240 and 8345 feet

The road from Old Faithful to Lake Yellowstone twice crosses the Continental Divide. The first crossing is at Craig Pass, at an elevation of 8240 feet, alongside Isa Lake, whose waters in springtime flow either into the Pacific or Atlantic. A little further on, if the day is clear, may be seen Lake Shoshone and the great Teton Mountains. The second crossing of the Divide is at an altitude of 8345 feet.

#### LAKE YELLOWSTONE - ALTITUDE 7741 FEET

The lake is reached at Thumb Station, where particular points of interest are the Paint Pots, the Lakeside Geyser, and the Fishing Cone. At the latter point, until the regulations forbade, it was possible to catch a fish in the Lake and boil it in the hot spring without moving.

Lake Yellowstone is at an altitude of 7741 feet, and covers 139 square miles. It has a shore line of 100 miles. To the south are Mount Sheridan and the Teton Peaks, and across the Lake to the east is the Absaroka Range.

The traveler by the lake will see many ducks, gulls and possibly pelicans.

At the outlet of the Lake, crossing the Yellowstone River, is Fishing Bridge, one of the famous fishing-places of the world. Even a novice is likely to secure a good string of trout here.

#### GRAND CANYON AND FALLS OF THE YELLOWSTONE - ALTITUDE 7400 FEET

The Upper and Lower Falls of the Yellowstone River are respectively 109 and 300 feet in height.

The view of Lower Falls and Grand Canyon is generally regarded one of the sublime scenes of America. A painting of it, by Thomas Moran, adorns the Capitol at Washington.



The best points of vantage from which to view the Canyon are Artist Point, and the edge of the Lower Falls, on the western bank.

At Inspiration Point the canyon is two/~~hundred~~<sup>thousand</sup> feet across and approximately twelve hundred feet deep.

The canyon is about twenty miles in length, but only the first three miles below the Lower Falls contain the wonderful yellow, red and brown coloring which gives the canyon its extraordinary beauty.

The coloring is due to the fact that in times gone by the fumes rising from hot springs deep in the ground have moved through the rhyolite rock until the rock has been decomposed and changed.

### WILD ANIMALS

Wild animals may appear anywhere in the park at any time and the photographer should be continually on look-out. The animals most likely to be seen by the Presidential party are bear, elk, deer, antelope and buffalo.

Bear frequent the dumps in the vicinity of the hotels, and occasionally are encountered on the open roads. One famous bear that meets automobiles on the highways is known as Jesse James, and has already been performing this year.

There are great numbers of elk in the park, and they are likely to appear in any section. The same is true of deer.

The antelope range in the northeastern part of the park, and may be seen as the party returns from Tower Falls to Mammoth Hot Springs.

In the northeastern section of the park is a Buffalo Ranch occupied by a herd of nearly seven hundred. This ranch is not included in the itinerary of the party, but many fine specimen of buffalo bulls may be seen in the Buffalo Corral, near Mammoth Hot Springs, where they are kept during the summer for the convenience of tourists. Adjacent to the buffalo corral is an elk corral.

It is possible that mountain sheep may appear in the vicinity of Dunraven Pass.

### TREES

The trees of the park are the limber pine, the lodgepole pine, the white bark pine, the Douglas fir, the fir (true fir), the spruce, the cedar, the juniper, the narrow leaved cottonwood, the aspen, the willow, alder and a few other species. More than four-fifths of the park is heavily forested. The lodgepole is by far the most abundant tree species, making up nearly three-fourths of the whole tree population.

The President's Party will see limber pine and juniper at headquarters and on the terraces of Mammoth Hot Springs. Passing to the park plateau the road leads through aspen groves, but upon leaving the Golden Gate lodgepole pine will be observed on the way to Old Faithful Inn. Crossing the Continental Divide the party will observe dense forests of spruce, particularly after crossing the Continental Divide the first time.



Returning to Lake Yellowstone the lodgepole pine will again become predominant. From the Thumb of Lake Yellowstone to the outlet of the Lake lodgepole will predominate and on the Divide the knotted woods will be seen. Most of the trees between Lake and Canyon are lodgepole pine but in Dunraven Pass spruce and white bark pine will be seen. At Camp Roosevelt and between the Camp and Mammoth Hot Springs fir will predominate, particularly the big Douglas fir, although there will also be seen spruce, lodgepole pine and aspen.

#### PARK FLOWERS

Flowers at present in bloom in Yellowstone Park include many species that in lower altitudes belong to the earliest spring season, such as dogtooth violet, phlox, iris, canass, several kinds of orchids, wild flax, geranium, Juneberry, wild cherry, wild strawberry and wild rose.

Other flowers, more peculiar to the region, include yellow columbine, wild buckwheat, rock rose, holly-leaved barberry, dwarf sunflower and false snapdragon. The latter flower is one of most unusual interest. It has a tubular, two-lipped yellow blossom, and will be seen growing on the geyser basins and near hot springs, with its very roots bathed in the warm water.



Department of the Interior  
National Park Service  
Yellowstone National Park  
Yellowstone Park, Wyoming.

June 26, 1923.

CIRCULAR NO. 47.

INSTRUCTIONS RELATIVE TO PRESIDENT'S TOUR

1. The President's special train will arrive at Gardiner at 6:00 A. M., Saturday morning, June 30th, and will depart from Gardiner at 7:00 P. M., July 1st.
2. The special train consists of ten cars.
3. There are 72 in the President's official party, including the Secretary of the Interior and Mrs. Work, the Secretary of Agriculture, the Secretary to the President and Mrs. Christian, and Brigadier General and Mrs. Sawyer. There are 30 newspapermen in the party.
4. The train will be met at Gardiner by the following committee, which will repair to the President's car and welcome him to the Park: Mr. John W. Meldrum, Mr. H. W. Child, Mr. H. H. Hays, Mr. W. M. Nichols, Mr. J. E. Haynes, Mr. E. H. Moorman and Superintendent Horace M. Albright.
5. At approximately 8:00 o'clock the party will depart from Gardiner to Mammoth Hot Springs, where breakfast will be served at Mammoth Hotel. Thereafter an hour will be devoted to a reception at the hotel to about 100 citizens and to a trip about headquarters, to the buffalo corral and over the terraces. At approximately 10:00 o'clock the party will leave for Old Faithful, arriving about 1:00 P. M., where luncheon will be served. The party will spend the afternoon and night at Old Faithful.
6. On the second day, July 1st, the party will leave Old Faithful early, if possible 8:30, and will proceed to the Thumb of Lake Yellowstone. Any members of the party desiring to remain at the Lake an hour or thereabouts in order to fish, may do so. The party, however, will proceed to the Canyon Hotel for lunch, taking in Artist Point on the way. Fishermen may take luncheon at the Lake if they choose. At about 2:30 P. M., July 1st, the party will leave Grand Canyon Hotel for Mammoth Hot Springs and Gardiner, going via Danraven Pass. The party will take dinner on the train.
7. On the morning of June 30th, a mounted guard of as many rangers as are available, will proceed to Gardiner at an early hour and be prepared to escort the President from the train to and through the entrance arch. The detachment will be in charge of the Chief Ranger. The same detachment will escort the President from the park the evening of July 1st. If possible, the detachment should practice riding in line on June 29th, in order that the files may be straight and the same distance maintained approximately between each horse.
8. The party will travel through the Park in seven and ten-passenger cars and in each car an officer or employee of the National Park Service, or of one or more of the public utilities, will ride, in order that all passengers in each car may receive information regarding the Park, and ready answers given to their questions. The following members of the National Park Service, in addition to the Superintendent, will be prepared to accompany the party:



Chief Ranger Sam T. Woodring, Chief Clerk P. E. Bilkert, Park Naturalist Frank Thone, Clerk Joseph Joffe, and the following officers of the public utilities are invited to accompany the party: H. W. Child, H. H. Hays, W. M. Nichols, J. E. Haynes.

9. On the morning of June 29th, and a day earlier if possible, Assistant Chief Ranger E. T. Scoyen will repair to the Upper Geyser Basin, examine the geysers and be prepared to make a complete report on the probable time of eruption of the more important geysers during the stay of the Presidential Party in Upper Geyser Basin. He will join the party immediately upon arrival at Upper Geyser Basin and will continue with it until the end of the trip.

First Assistant Chief Ranger Harry Trischman will repair to Upper Geyser Basin on June 29th, test the fishing waters in the neighborhood, and be prepared to conduct a limited number of members of the party on a fishing excursion, if any desire to go. Assistant Chief Ranger Douglas, at the Lake, will likewise test the fishing waters at or near the outlet of the Lake and will be prepared to take a limited number of the members of the party on a short fishing excursion in that neighborhood about 11:00 A. M., July 1st.

Dr. J. M. Wolfe will accompany the party to assist with fishing groups and render emergency medical aid if called.

10. Four rangers of the motorcycle patrol will be assigned by the Chief Ranger to report to the Chief of the Secret Service Force with the Presidential Party, Mr. Dick Jarvis. They will report immediately upon arrival of the Presidential train, the Chief Ranger introducing them to the Chief of the Secret Service. These men will be absolutely at the disposal of the Secret Service during the stay of the party in the Park. The following rangers have been designated by the Chief Ranger to make up this motorcycle detachment:- E. Matthew, H. Matthew, R. Sprinkle, M. Z. Ferguson. One or two additional motorcycle rangers will be assigned to the party for carrying messages and general utility work.

11. The road from Gardiner to Mammoth will be sprinkled in the early hours of the morning, but sprinkling of the road from Mammoth to Old Faithful on June 30th will begin one and one-half hours later than the regular schedule, but will be continued without interruption until after the Presidential Party passes. There will be no discontinuance of sprinkling for lunch. If the weather is dry, one sprinkler from Excelsior Geyser and one from Spring Creek will remain at Old Faithful throughout the afternoon of June 30th, sprinkling the roads over which the Presidential Party will pass between Old Faithful Inn and Riverside Geyser. The automobile camp will be sprinkled as usual, as the party will be likely to pass through this camp.

On July 1st sprinkling will begin as early as possible in the morning and will be continued without interruption until after the Presidential Party passes. There will be no interruption for lunch in the sprinkling between Lake and Canyon until the Party passes. When a sprinkling route has been covered once, the return trip will be started at once and continue without interruption until the Party passes.

12. At 8:00 A. M., June 30th, the road from Norris to Mammoth Hot Springs will be closed to northbound traffic until the party passes Norris.

After 9:00 o'clock in the morning, June 30th, no traffic, except the cars of the Presidential Party will be permitted to go south toward Norris, until the last car of the Presidential Party has been gone from the one mile point twenty minutes.



On June 30th, the Gibbon Canyon road will not be opened to northbound traffic until after the Party passes Madison Junction. Rangers at Norris will not permit traffic to go south, down the Gibbon Canyon, after 10:00 A. M. Control of the road at Norris will be made at Norris Junction.

On June 30th no northbound traffic will be permitted from Old Faithful toward West Yellowstone after 10:30 A. M., and likewise no traffic will be permitted to go south from Madison Junction after 11:00 A. M. until the Party passes.

All trucks inbound from the Park will park at Norris until the Party passes.

All outbound trucks will remain at headquarters until 10:15 A. M.

It is the intention of these instructions that the Party shall not pass traffic going either north or south along any of the roads between Mammoth Hot Springs and Old Faithful.

13. On July 1st, no traffic will be permitted between Old Faithful and West Thumb, except the Presidential Party, after 7:00 A. M., nor until the Party has passed the ranger station twenty minutes. Under no circumstances will traffic be permitted between West Thumb and Old Faithful on the morning of July 1st.

On the same morning, rangers at West Thumb will not permit traffic from the south entrance to go from the West Thumb to the outlet of Lake Yellowstone after 9:30 A. M., nor until the Party has been gone from West Thumb station twenty minutes.

Rangers at Lake will permit no traffic toward West Thumb until after the Presidential Party has passed their station, and will station a man at the Lake Junction to control traffic from Sylvan Pass, not allowing them on the main road when the Presidential Party is due to pass.

Between Lake and Canyon rangers will see that all private motorists depart from Lake before or with the yellow busses and travel on their schedule, arriving at Canyon Junction before the Presidential Party. No cars will be permitted to proceed from Canyon toward Lake after 10:00 A.M.

It is the intention of these instructions that the Presidential Party will encounter no traffic in either direction between Old Faithful and Canyon.

Rangers at Canyon, upon telephonic instructions from Lake as to the probable time the Presidential Party will arrive at Chittenden Bridge, will clear the road from Chittenden Bridge to Artist Point, and likewise will arrange for clearing the road from Chittenden Bridge to Canyon Hotel.

On the afternoon of July 1st the Inspiration Point road will be kept clear of traffic until 3:00 P. M. All private motorist traffic will be routed out of Canyon on the afternoon schedules of the yellow busses and they will proceed through to Mammoth Hot Springs on these schedules unless they wish to camp at Tower Falls, when they will park off the road.

No traffic will be permitted between Mammoth Hot Springs and Tower Falls eastbound during the entire day of July 1st, except traffic to Snake City, which must go by the Tower Falls Ranger Station not later than



Sheet No. 4.

2:00 P. M. Inbound traffic from Cooke City must go on from Tower Falls on the schedules of the yellow busses, or earlier.

The road between Mammoth Hot Springs and Gardiner will be kept clear of all traffic while the Party is passing between these points on the morning of the 30th and the evening of July 1st.

Parties stalled along the road through mishap to cars or other misfortune will be parked off the road by motorcycle ranger who will always ride not less than one mile in advance of the Party.

In the evening, auto checkers will inform people in the public automobile camps of the regulations that will be in effect the coming day from their respective stations, in order that there will be no grounds for complaint.

14. Park Naturalist Thone will be prepared to deliver a lecture on the Park at Old Faithful, if it is desired by the Party.

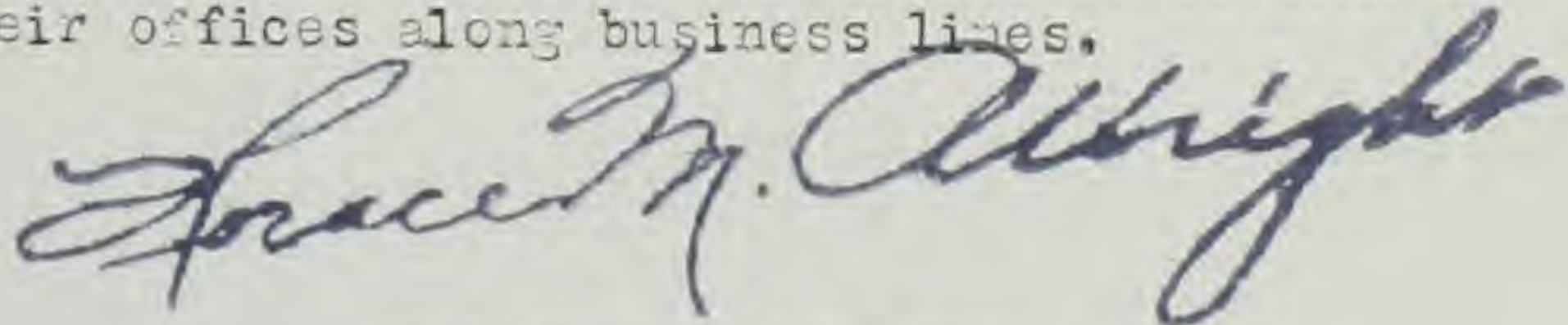
15. Motorcycle rangers may expect night assignments out of Old Faithful, June 30th, in carrying messages to the telegraph wires at West Yellowstone.

16. Park Telegraph Operator Sandel will be prepared to accompany the Party to Old Faithful for the purpose of assisting in the dispatch of news at that point.

17. The Chief Ranger has authority to detail rangers from one station to another, or from one side of the Park to another, in order to carry out the instructions herein.

18. No leave will be granted any of the employees of the National Park Service while the Party is in the Park, but every effort will be made to give all employees of the Service, and other residents of the Park, an opportunity to see the President while he is at Mammoth Hot Springs.

19. Obviously it is necessary that every employee of the Government, or of the public utilities, be on the alert to render the most efficient service, without regard to hours, or other consideration. The cooperation of all organizations operating here in the accommodation and entertainment of the public is requested to the end that the tour of this party will be beneficial, enjoyable and successful from every standpoint, thereby indicating to the President that this Park is being operated in the public interest in accordance with the highest ideals of business management, as laid down by him, by the Secretary of the Interior, and by the Director of the Budget in their discussions and instructions regarding the functions and duties of Government officers in the conduct of their offices along business lines.



HORACE M. ALBRIGHT  
Superintendent



Department of the Interior  
National Park Service  
Yellowstone National Park  
Yellowstone Park, Wyoming.

June 30, 1923.

SPECIAL MEMORANDUM:

FISHING IN YELLOWSTONE NATIONAL PARK

Early fishing in the Yellowstone National Park has been very satisfactory. Since the park opening on June 20th reports to rangers indicate a total catch of about 2500. This total will ~~amount~~ rapidly henceforth, as the streams are clarifying after the melting of spring snows. During June the fishing has been chiefly at the Yellowstone Lake and along the Yellowstone River near the Lake.

The fish population of Yellowstone National Park is almost without limit. Last year the greatest fish planting project in the history of the park was accomplished. The total fish planted numbered 8,609,800, divided among species as follows: Black Spotted Trout, 8,373,000; Eastern Brook Trout, 116,000; Rainbow Trout, 120,000. In the previous year the plant was 4,051,000, including 1,000,000 of the famous game fish, Montana Grayling, which is native of the Madison River.

Two hatcheries are maintained in the park by the United States Bureau of Fisheries, in cooperation with the National Park Service. There is also close cooperation to mutual advantage between the park fisheries and the state fisheries of neighboring states.

The species of trout native in the Yellowstone region are the Native or Cutthroat Trout, the Rainbow, the Brook, the Loch Leven, the Lake or Mackinaw; the Montana Grayling is native to the region. Several other species have been planted.

The Gibbon River is the best Rainbow stream. In the Fire-hole River are found the Loch Leven, Rainbow, Brook and Native Trout. Near the outlet of Lake Yellowstone is the Fishing Bridge, where, according to fishing authorities, more trout have been caught than at any other single point in America. Native or Cutthroat are caught in the Lake.

The limit is ten fish per person per day; minimum length eight inches. All rangers are instructed to assist visitors in finding good fishing grounds. There will be equipment at the Lake for from twelve to fifteen fishermen who should be prepared to leave Old Faithful at 7:30 A. M. July 1st.

HORACE M. ALBRIGHT  
Superintendent



DEPARTMENT OF THE INTERIOR.  
NATIONAL PARK SERVICE—YELLOWSTONE NATIONAL PARK.

CHIEF RANGER'S MONTHLY TRAVEL REPORT, MONTH OF *January*, 192*3*

	NORTH.		WEST.		EAST.		SOUTH.		ALL TRAIL ENTRANCES.		SUMMARY.	
	Cars.	People.	Cars.	People.	Cars.	People.	Cars.	People.	Horses.	People.	Cars.	People.
Automobile permits issued	1,260	3,941	730	2,319	887	2,887	67	222			2944	9,369
Automobile permits issued (complimentary)	3	6	7	15	4	11	-	-			14	32
Cars entering second time	14	41	7	17	5	27	-	-			<u>26</u>	85
Motor-cycle permits issued	5	9	7	8	5	5	-	-			<u>17</u>	22
Total	1,282	3,997	751	2,359	901	2,930	67	222			3001	9,508
Passengers in horse-drawn vehicles												
Passengers on horseback		275		55		44		-				374
Passengers on bicycles												
Passengers on foot												
Total incoming passengers with private transportation	1,282	4,272	751	2,414	901	2,974	67	222			3001	9,882
WITH HIRED TRANSPORTATION.												
Yellowstone Park Transportation Co												
Total incoming passengers with hired transportation		1,477		2656		634		17				4,784
TOTAL INCOMING PASSENGERS	1,282	5,749	751	5070	901	3608	67	239			3001	14,666
Automobiles in public camping grounds												
Mobile campers in public camping grounds												

Total passengers Cooke City stage

SEASON TOTAL END OF LAST MONTH

323 975

Total visitors Cave Falls—Bechler River Region

SEASON TOTAL TO DATE

3324 15,641